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Amendments to the Claims

1. (Original) A method for ~~generating~~ improving the colour of a natural colour image comprising the steps of

generating a greenness band from a multispectral image including blue, green, red and near infrared bands and

adjusting the green band using the greenness band.

2. (Currently Amended) A The method according to claim 1 wherein the greenness band is generated mathematically using the equation:

$$GN = (NIR_{Orig} - R_{Orig} - \lambda) / s$$

where  $GN$  is a greenness band,  $NIR_{Orig}$  is an original near infrared band,  $R_{Orig}$  is an original red band,  $\lambda$  is a threshold and  $s$  is a scale factor.

3. (Currently Amended) A The method according to claim 1, wherein the green band is adjusted mathematically using the equation:

$$G_{Adj} = G_{Orig} + GN$$

where  $G_{Adj}$  is an adjusted green band,  $G_{Orig}$  is an original green band and  $GN$  is a greenness band.

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4. (Currently Amended) A The method for generating improving the colour of a pan-sharpened natural colour image comprising the steps of

generating a greenness band from pan-sharpened image bands including blue, green, red and near infrared bands and

adjusting the pan-sharpened green band using the greenness band.

5. (Currently Amended) A The method according to claim 4, wherein the greenness band is mathematically generated using the equation:

$$GN_H = (NIR_{PS} - R_{PS} - \lambda) / s$$

where  $GN_H$  is a high resolution greenness band,  $NIR_{PS}$  is a pan-sharpened near infrared band,  $R_{PS}$  is a pan-sharpened red band,  $\lambda$  is a threshold and  $s$  is a scale factor.

6. (Currently Amended) A The method for generating improving the colour of a pan-sharpened natural colour image comprising the steps of

generating a greenness band from a panchromatic image and a pan-sharpened red band; and

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adjusting the pan-sharpened green band using the greenness band.

7. (Currently Amended) ~~A~~ The method according to claim 6, wherein the greenness band is mathematically generated using the equation:

$$GN_H = (Pan_{Orig} - R_{PS} - \lambda) / s$$

where  $GN_H$  is a high resolution greenness band,  $Pan_{Orig}$  is an original panchromatic band,  $R_{PS}$  for pan-sharpened red band,  $\lambda$  is a threshold and  $s$  is a scale factor.

8. (Currently Amended) ~~A~~ The method according to claim 4, wherein the pan-sharpened green band is adjusted mathematically using the equation:

$$G_{HAdj} = G_{PS} + GN_H$$

where  $G_{HAdj}$  is an adjusted pan-sharpened green band,  $G_{PS}$  is an pan-sharpened green band and  $GN_H$  is a high resolution greenness band.

9. (Currently Amended) ~~A~~ The method according to claim 1, wherein the greenness band is generated using an equation selected from the group comprising the following alternative equations:

$$GN = (NIR_{Orig} - G_{Orig} - \lambda) / s \text{ and}$$

or

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$$GN = (NIR_{Orig} - B_{Orig} - \lambda) / s,$$

where  $GN$  is a greenness band,  $NIR_{Orig}$  is an original near infrared band,  $G_{Orig}$  is an original green band,  $B_{Orig}$  is an original blue band,  $\lambda$  is a threshold and  $s$  is a scale factor.

10. (Currently Amended) A The method according to claim 1, wherein the greenness band is generated using the following alternative equation selected from the group comprising equations:

$$GN_H = (NIR_{PS} - G_{PS} - \lambda) / s \text{ and}$$

or

$$GN_H = (NIR_{PS} - B_{PS} - \lambda) / s,$$

where  $GN_H$  is a high resolution greenness band,  $NIR_{PS}$  is a pan-sharpened near infrared band,  $G_{PS}$  is a pan-sharpened green band,  $B_{PS}$  is a pan-sharpened blue band,  $\lambda$  is a threshold and  $s$  is a scale factor.

11. (Currently Amended) A The method according to claim 1 and 7, wherein the greenness band is generated using an equation selected from the group comprising the following alternative equations:

$$GN_H = (Pan_{Orig} - G_{PS} - \lambda) / s \text{ and}$$

or

$$GN_H = (Pan_{Orig} - B_{PS} - \lambda) / s,$$

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where  $GN_H$  is a high resolution greenness band,  $Pan_{Orig}$  is an original panchromatic band,  $G_{PS}$  for pan-sharpened green band,  $B_{PS}$  for pan-sharpened blue band,  $\lambda$  is a threshold and  $s$  is a scale factor.

12. (Currently Amended) A The method according to claim 7, wherein the greenness bands are generated using an equation selected from the group comprising:

$$GN_H = (Pan_{Orig} - G_{PS} - \lambda) / s \text{ and}$$

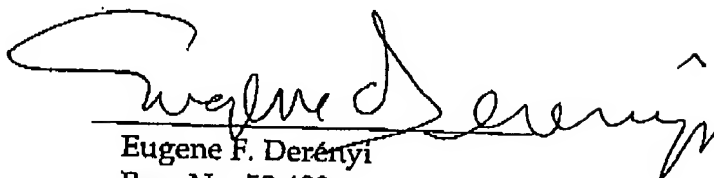
$$GN_H = (Pan_{Orig} - B_{PS} - \lambda) / s,$$

where  $GN_H$  is a high resolution greenness band,  $Pan_{Orig}$  is an original panchromatic band,  $G_{PS}$  for pan-sharpened green band,  $B_{PS}$  for pan-sharpened blue band,  $\lambda$  is a threshold and  $s$  is a scale factor.

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This application is considered in good and proper form for allowance  
and the Examiner is respectfully requested to pass this application to issue.

Respectfully submitted,



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